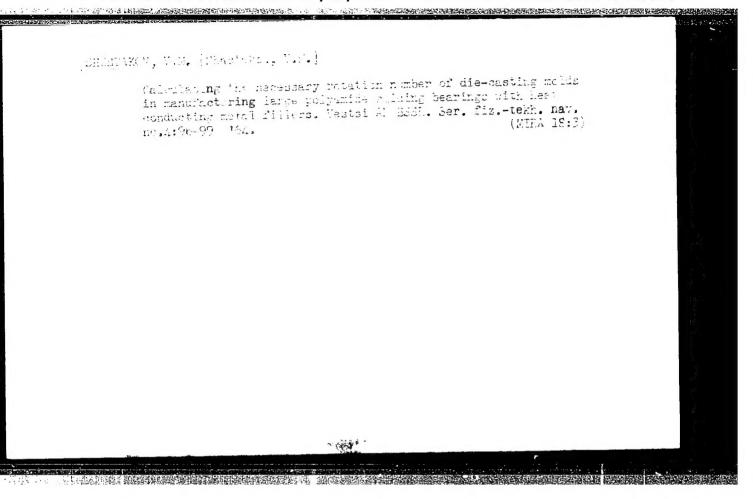
MASLOV, V.Ye., kand.tekhn.nauk; SAL'KOV, P.G., kand.tekhn.nauk; PROTSAYLO, M.Ya., inzh.; SMORGUNOV, M.P., inzh.; KROTOV, V.I., inzh.; OSTROMOV, A.M., inzh.; SHESTAKOV, V.M., inzh.

Experience in burning brown coals in wet-bottom furnaces with shaft-type impact mills. Teploenergetika 10 no.2:15-19 F '63. (MIRA 16:2)

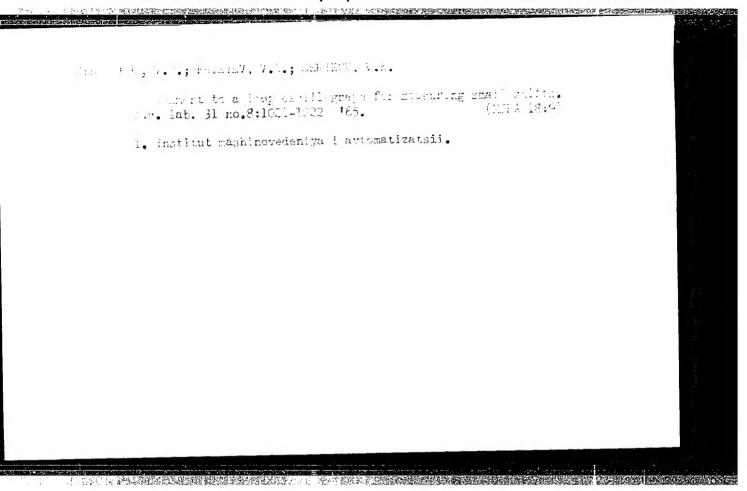
1. Vostochnyy filial Vsesoyuznogo teplotekhnicheskogo instituta, Chelyahinsk, Krasnoyarskenergo i Vsesoyuznyy nauchno-issledovatel'skiy teplotekhnicheskiy institut. (Boilers) (Furnaces) (Lignite)

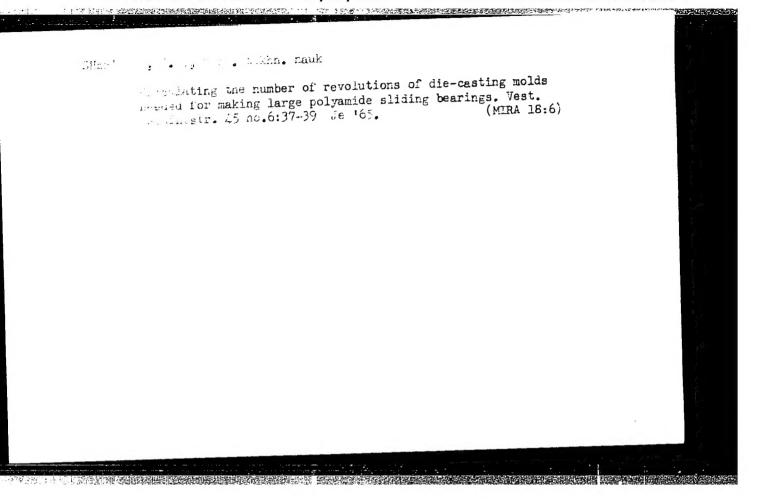


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L 52320-65 EEC(b)-2/EWA(h)/EWT(1) Pg-4/P1-4/Pm-4/Po-4/Pq-4/Peb		
ACCESSION NR: AP5009107 S/0250/65/009/002/0115/0117		
AUTHOR: Treyyer, V. N.; Skorynin, Yu. V.; Shestakov, V. M.		
TITLE: Predicting the reliability of elements in machines and instruments according to the variation of their reliability indices under different operating condi-		1
tions SOURCE: AN BSSR. Doklady, v. 9, no. 2, 1965, 115-117		
TOPIC TAGS: reliability prediction, test facility, instrumentation	4.	
ABSTRACT: The authors present a general method for predicting the reliability of any of a lot of identical elements for different periods under different load fac-		
tors. The life expectancy of any element under different loads can also be predicted. The method is based on the use of a series of equations by which reliability		
expectations derived from measurements can be extrapolated for different periods of operation and load factors. The basic relationship underlying the method is $\Delta K_I = b_{01} l^{k_{01}}$ where $\Delta K_{I1}$ is the mathematical expectation of deviation of the reli-		
ability of all elements of the lot being tested at time $t_1$ from the initial mathematical expectation of reliability, and $b$ and $k$ are parameters. The method is		
particularly applicable to investigation of a number of wearing elements of machines	3.4	
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L 52320-65	the second to the second of the second of the second second second second second second		
ACCESSION NR: AP5009107		I	
and instruments. Orig. art. has:	7 formulae, 1 figure.		
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State Committee on Machine Build	ing, Gosplan SSSR)		
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SHESTAKOY, V.N.

USBR/Mathematics

Card 1/1 Pub. 22 - 8/49

Authors : Shestakov, V. N.

Title on the transformation of a monocyclic sequence into a recursive one

Periodical : Dok. AN SSSR 98/4, 541-544, Oct. 1, 1954

Abstract : A method for the transformation of monocyclic sequences into recursive ones is described. Definitions of monocyclic, fundamental and recur-

sive sequences are given. Two references (1949 and 1954).

Institution : ...

Presented by: Academician S. L. Sobolev, August 19, 1954

SHEDTAKLY, V. N. -- "The Effect of Coupling of Mogies on the Horizontal Jynamics of an Electric Locenctive." Win Railways USSR. All-Union Sci Res Inst of Railroad Transport. Koscow, 1955. (Dissertation for the Degree of Candidate in Technical Sciences).

So.: Enizhmaya L topis', No. 2, 1956.

SHESTAKOV, V.N., kandidat tekhnicheskikh nauk.

Significance of coupling cars during movement of an electric locomotive on a curve. Vest. TSNII MPS 15 no.4: 16-21 D '56. (MLRA 10:2)

(Railroads--Curves and turnouts)

ANDRIYEVSKIY, S.M., kandidat tekhnicheskikh nauk; SHESTAKOV, V. N., kandidat tekhnicheskikh nauk.

Lateral wear of rails on curves. Vest.TSNII MPS no.1:22-29 F 157.

(Railroads--Rails)

Determining lateral pressures on curved track sections of electric and diesel loconotives with back stroke equipment. Vest.

TENII MPS 18 no.4:38-43 Je 159. (MIRA 12:10)

(Loconotives-Dynamics) (Bailroads-Curves and turnouts)

ZOL'NIKOV, S.S., kand.tekhn.nauk; POPOV, A.V., kand.tekhn.nauk; SHESTAKOV,
V.N., kand.tekhn.nauk

Dynamic testing of series F and ChS2 electric locomotives.

Vest.TSNII MPS 19 no.6:21-26 '60. (NIRA 13:9)

(Electric locomotives--Testing)

SHESTAKOV, V.N., kand.tekhn.nauk; KUSHNARENKO, Ye.M., kand.tekhn.nauk

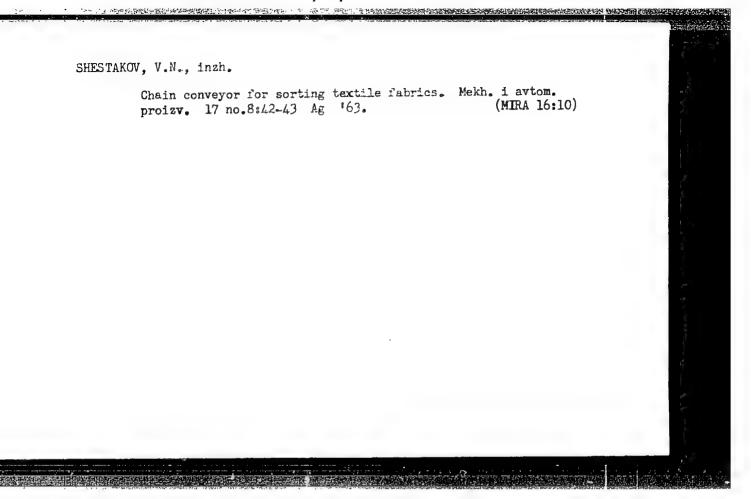
Performance of axle box drivers with rubber-metal hinges. Vest.

TSNIIS MRS 20 no.3:42-46 '61. (MIRA 14:5)

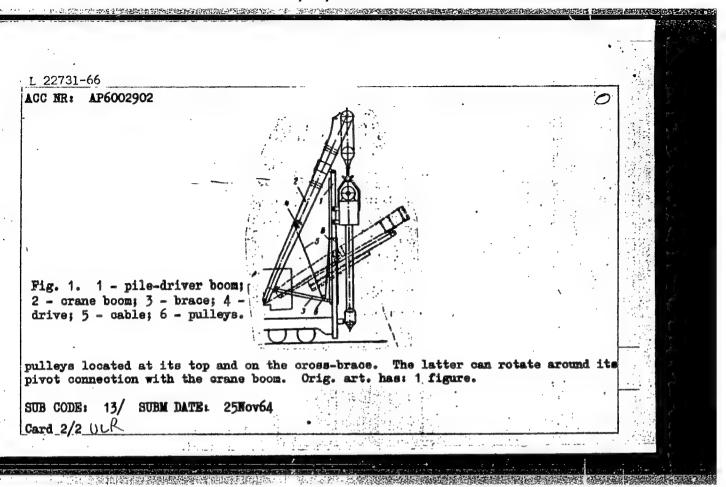
(Damping (Mechanics))

DOMETTI, A.A.; ZIMINA, A.M.; KALININ, F.P.; LAKTIONOVA, P.I.; MOROSHKINA, C.I.; MYASISHCHEVA, Ye.I.; NECHAYEVA, Yu.A.; PREOBRAZHENSKIY, A.I.; RUSH, V.A.; RYNDIN, A.A.; SAUCHKIN, Yu.G.; STROYEV, K.F.; TEREKHOV, P.G.; [deceased]; FREYKIN, Z.G.; SHESTALOV, V.N.

Nikolai Nikolaevich Baranskii's 80th birthday. Geog. v shkole 24 (MIRA 14:8) no.4:7-8 J1-Ag '61. (Baranskii, Nikolai Nikolaevich, 1881)



EVIT(d)/EVIP(b)/EVIP(1)L 22731-66 SOURCE CODE: UR/0286/65/000/024/0066/0066 ACC NR: AP6002902 AUTHORS: Pangayev, V. A.; Stepanov, V. A.; Shestakov, V. S. ORG: none TITLE: Self-powered boom crane with pile-driver attachment. Class 35, No. 177057 announced by Novosibirsk Branch of the All-Union Scientific Research Institute for Transportation Construction (Novosibirskiy filial vsesoyuznogo nauchnoissledovatel'skogo instituta po transportnomu stroitel'stvu) SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 66 TOPIC TAGS: crane, loading equipment, pile driver, transporting equipment ABSTRACT: This Author Certificate presents a self-powered boom crane with piledriver attachment, including a pile-driver boom with guideways hinged to the crane boom and a brace. The ends of the brace are attached to both booms. To decrease the time required to convert the crane to operating or transporting positions and to permit its use without dismounting the pile-driver boom, the latter is assembled from hinged parts operated by a drive mounted on the crane boom (see Fig. 1). The drive cable is attached to the lower part of the pile-driver boom and passes over Card 1/2 TDC: 621.873.3:629.11:624.155



ACC NR: ARG025368 SOURCE CODE: UR/0285/66/000/004/0013/0013

AUTHOR: Shestakov, V. T.

ORG: none

TITLE: Experimental equipment and methodology for studying micronozzles 3

SOURCE: Ref. zh. Turbostroyeniye, Abs. 4.49.92

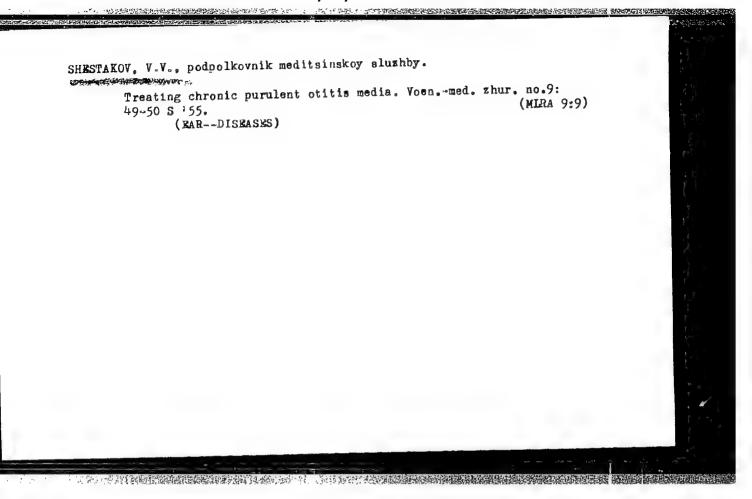
REF SOURCE: Tr. Kuybyshevsk. aviats. in-t, vyp. 22, 1965, 63-70

TOPIC TAGS: micronozzle, nozzle

ABSTRACT: An experimental method has been presented for studying micronozzles by determining their basic characteristics and by changes in the characteristics caused by alterations in the nozzle design or in operating conditions. Diagrams and descriptions of experimental equipment and measuring instruments are given in the original article. [Translation]

SUB CODE: 13/

Card 1/1



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SHESTAKOV, V.V., podpolkovnik meditsinskoy sluzhby; GREKOV, P.M., mayor meditsinskoy sluzhby; DAVYDOVICH, S.Ya., kandidat meditsinskoy sluzhby; TISHCHERKO, M.I., starshiy leytenant meditsinskoy sluzhby Prevention and treatment of acute catarrh of the upper respiratory (MIRA 10:12) tract. Voen.-med.zhur. no.8:79-81 Ag '57.

(RESPIRATORY ORGANS--DISEASES)

CIA-RDP86-00513R001549120020-7" APPROVED FOR RELEASE: 07/13/2001

L 4472-66 ENT(1)/ENT(m)/FCC/T/ENA(h) IJF(c) GW ACC NR: AP5024652 SOURCE CODE: UR/0048/65/029/009/1751/1753 AUTHOR: Rozental', I.L.; Shestakov, V.V. ORG: none /Report, All-Union Conference on Some remarks on cosmic ray energy spectra TITLE: Cosmic Ray Physics held at Apatity 24-31 August 1964/ SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 9, 1965, 1751-1753 TOPIC TAGS: cosmic ray particle, spectral energy distribution, error, mathematic method ABSTRACT: This paper is concerned with the errors in the experimentally determined power law spectra of cosmic ray particles due to statistical errors in the measurement of the energies of individual particles. The experimental energy spectrum F'(E') is given in terms of the true spectrum F(E) by  $F'(E') = \{F(E) \text{ dE } P(E,E'), \text{ where } P(E,E'), \}$ is the probability of finding the value E' for the energy of a particle whose true energy is E. The experimental spectrum F'(E') corresponding to a true spectrum of the form F(E) AE-(Y+1) is calculated with several different assumptions concerning the functions P, and in some cases formulas are derived for calculating the true spectrum from the experimental spectrum. The cases discussed include that in which P is constant when  $(E - E')^2 < a^2$  and vanishes otherwise, and those in which E - E' is Gaus-Card 1/2 09010386

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ACC NR: AP5024652

sianly distributed with a dispersion that depends in certain different ways on E. According to Landau's hydrodynamic theory of multiple production, the function P for the usual method of determining the energies of nuclear-active particles represents a Gaussian distribution of  $\log E - \log E'$  with a dispersion that depends on the multiplicity. It is shown that in this case an experimental value of the spectrum index  $\gamma$  as large as 3.5 may be found if the true value is 1.8. The proper choice of the energy intervals over which to average the data is discussed briefly. When determining the spectral index  $\gamma$  one should employ the method of maximum likelihood and not that of least squares. Orig. art. has: 19 formulas.

RUB CODE: NP/ SUBM DATE: 00/- ORIG REF: 005/ OTH REF: 002

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Card 2/2

L 2769-66 EWT(m) IJP(c)
ACCESSION NR: AP5021331

UR/0120/65/000/004/0059/0062 539.1.074.2 37 33 B

AUTHOR: Kirillov-Ugryumov, V. G.; Petrukhin, A. A.; Shestakov, V. V.

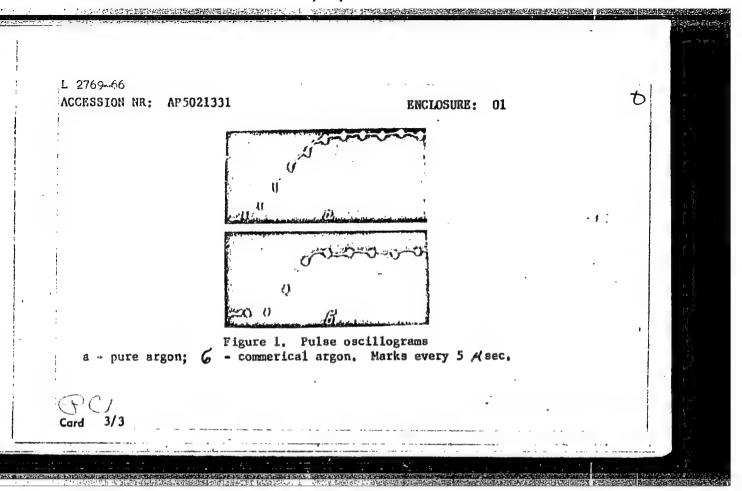
TITLE: The study of certain characteristics of the IK-6 ionization chamber

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1965, 59-62

TOPIC TAGS: ionization chamber, ion distribution, alpha particle

ABSTRACT: This paper presents the results of investigations of the IK-6 110x54 mm², 3 meter ionization chamber. The investigations cover the potential distribution across the cross section of the chamber, the calculated coefficients of electron collection at various parts of the chamber, and the calculated electron collection times. Using a particles from Pu²39 samples, the authors verified experimentally (at 0.5 atm of pure and commercial argon) the effectiveness of corner operation and the electron collection time (as a function of applied voltages). Pulse oscillograms are shown in Fig. 1 of the Enclosure. The authors thank V. V. Borog, I. A. Danil chenko, and V. G. Sinitsyna for the help during individual measurements and N. L. Grigorov for valuable remarks. Orig. art. has: 4 formulas, 5 figures, and 2 tables.

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L C63h7+5 EWT(m) GD ACC NR: AT6032306

SOURCE CODE: UR/0000/66/000/000/0059/0068

AUTHOR: Borog, V. V.; Kirillov-Ugryumov, V. G.; Petrukhin, A. A.; Rozental', I. L.; Shestakov, V. V.

ORG: none

TITLE: Ionization calorimeter for the investigation of high energy cosmic muons at large zenith angles

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Fizika elementarnykh chastits (Physics of elementary particles). Moscow, Atomizdat, 1966, 59-68

TOPIC TAGS: muon, calorimeter, bremsstrahlung, cosmic ray measurement, angular distribution, ionization chamber, waveguide

ABSTRACT: A study of high energy muons, using the horizontal flux zenith angles  $\geq 60^{\circ}$  of cosmic rays at sea level was made and an ionization calorimeter developed for this purpose is described. Such a study is feasible because the horizontal flux at large zenith angles 0 consist almost exclusively of muons and the intensity of muons for energies  $\geq 10^{11}$  ev increases with 0. The apparatus uses muon flux to study high energy muon interactions with matter and measures the characteristics of the horizontal muon flux to determine the angular and energy distributions. The ionization calorimeter enables one to study both of these areas by observing the showers produced by the muons due primarily to bremsstrahlung and nuclear interactions. It detects muons

**Card 1/2** 

ACC NR: AP7007079

SOURCE CODE: UR/0048/66/030/010/1666/1668

AUTHOR: Borog, V. V.; Kirillov-Ugryumov, V. G.; Petrukhin, A. A.; Shestakov, V. V.

ORG: none

TITLE: Non-electromagnetic interactions of superhigh-energy muons (Paper presented at the All-Union Conference on Cosmic Radiation Physics, Moscow, 15-20 Nov 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 10, 1966,

1666-1668

TOPIC TAGS: muon, cosmic radiation

SUB CODE: 20

ABSTRACT: The non-electromagnetic interactions of superhigh-energy muons (E  $\gtrsim 10^{11}$  ev) were recorded at an installation for the study of cascade showers produced by cosmic radiation muons impinging at large zenith angles (cf. Borog et al, Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 30, 10, 1669, 1966). The only known process which could give rise to the non-electromagnetic cascade showers recorded was that of nuclear interaction of muons. A comparison of the spectra of nuclear and electromagnetic showers made it possible to evaluate the cross-section of  $\gamma_N$  of the photonuclear process at E  $\gtrsim$  10 ev. By using the relation derived by P. & D. Kessler (Compt. Rend. 244, 1896, 1957), which applies to any transmitted energies, it was established that

 $6 \text{ y N} = 0.15 \begin{array}{c} +0.20 \\ -0.10 \end{array}$  . 10 cm<sup>2</sup> per nucleon.

Cord 1/1 Orig. art. has: 3 figures and 2 formula: [JPRS: 39, 6587]

ACC NR: AP7007080

SOURCE CODE: UR/0048/66/030/010/1669/1673

AUTHOR: Borog, V. V.; Kirillov-Ugryumov, V. G.; Petrukhin, A. A.; Rozental', I. L.; Shestakov, V. V.

ORG: none

TITLE: Study of the energy spectrum of cosmic-ray muons on the basis of electron-photon showers /Paper presented at the All-Union Conference on Cosmic Radiation Physics, Moscow, 15-20 Nov 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 10, 1966,

1669-1673

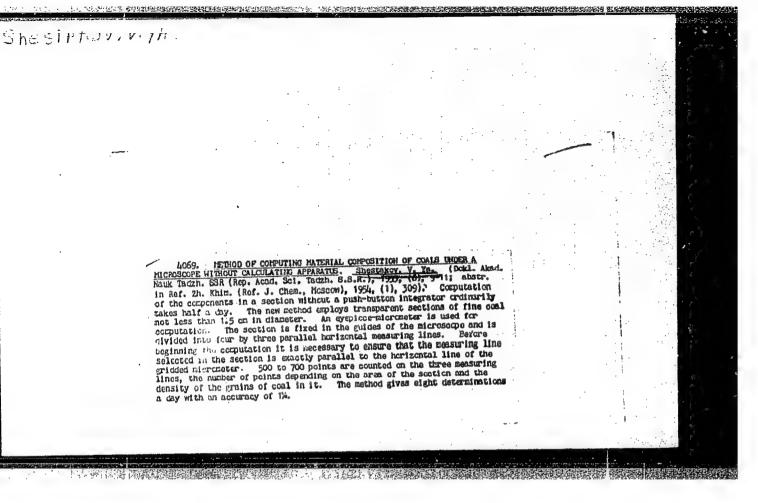
TOPIC TAGS: calorimeter, cosmic ray, muon

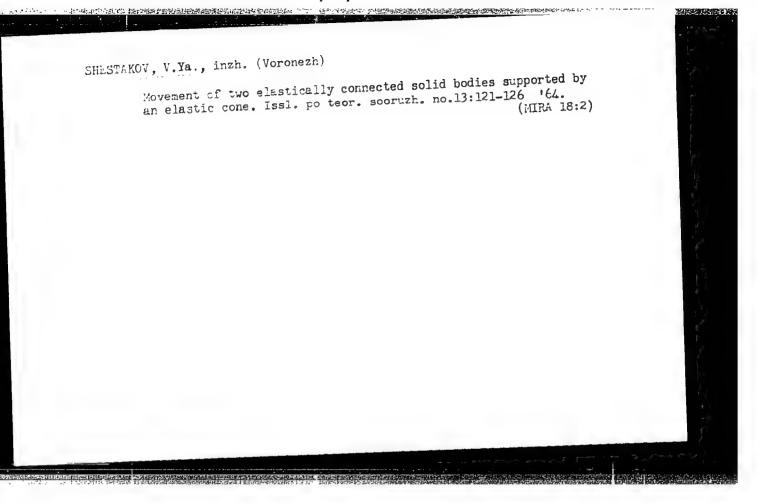
SUB CODE: 20

ABSTRACT: At present, outer space is the only accelerator of particles with superhigh energies. The energy spectrum of electromagnetic cascades produced by superhigh-energy muons (Em.  $> 10^{11}$  ev) impinging at angles  $\geq 55^{\circ}$  was studied at sea level on an ionization calorimeter consisting of six rows of Ar-filled ionization chambers, 25 in each row, with an iron interlayer between the chambers acting as an absorber. The majority of the cascades recorded were due to the interaction of muons with the absorber. A small number of showers (< 17) was produced by nucleus-reactive particles. The energy spectrum of the muons was determined on the basis of the recorded showers due to high-energy photons and electrons formed by interaction of the muons with atoms of the absorber. Mathematical equations expressing the experimentally determined energy spectrum

The authors think G. G. Bunatyan for help in carrying out the numerical computations on the ETsVM. Orig. art. has: 4 figures and 5 fo mulas. [JPRS: 39,658]

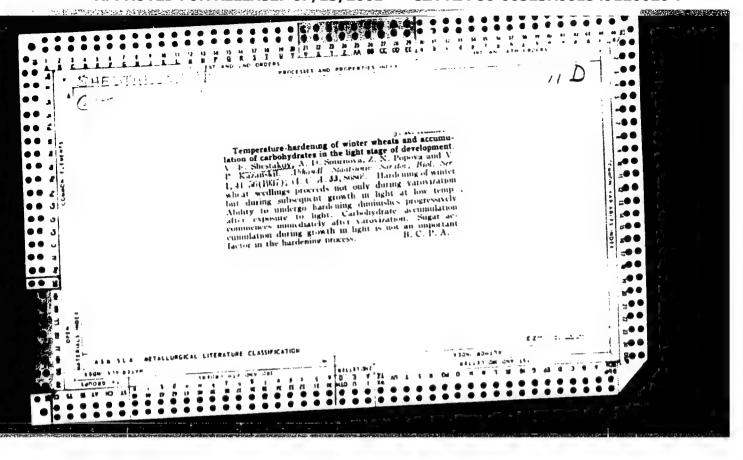
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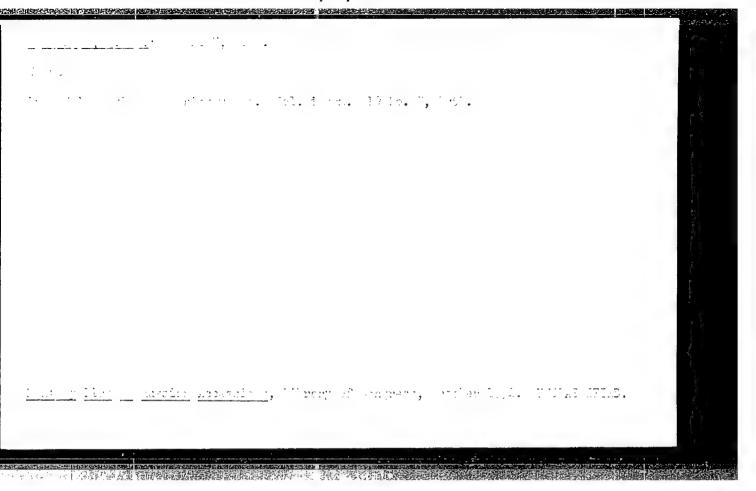




#### "APPROVED FOR RELEASE: 07/13/2001

#### CIA-RDP86-00513R001549120020-7





- 1. SHTGTAKOV, V. YE.
- 2. 113 'R (600)
- 4. Wheat
- 7. Intervarietal hybrids of winter wheat from crossbreeding under free pollination. Sel i sem. 19 no. 12, 1952

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

SHESTAXOV, V.Ye., kandidat tekhnicheskikh nauk; ORLOV, V.A.

Methods for obtaining hybrid rye seeds and a study of their productivity. Agrobiologiia no.2:40-43 Mr-Ap '57. (MLRA 10:5)

1.Petrovskaya gosudarstvennaya selektsionnaya stantsiya, p/o Danilovka, Penzenskoy oblasti.

(Penza Province—Rye breeding)

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SHESTAKO7, Yu.G.

Geochemical indicator of the zones of magnetite mineralization. Sov. geol. 8 no.3:132-134 '65. (MIRA 18:5)

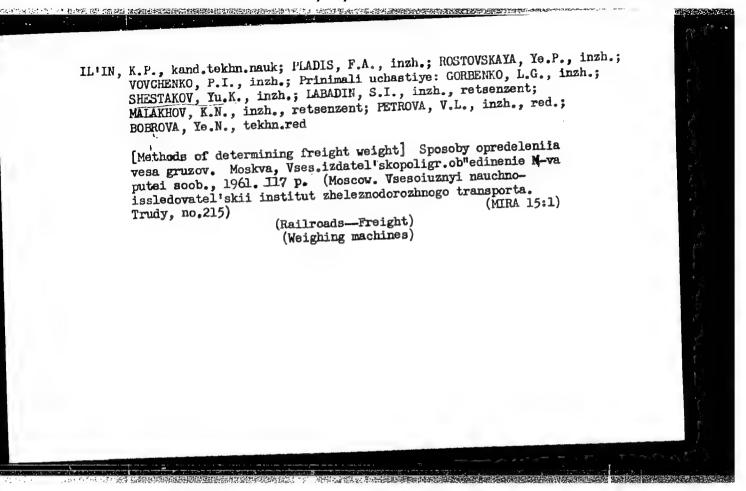
1. Kamskiy filial Vsesoyuznogo nauchno-issledovatel'skogo geolo-gorazvedochnogo neftyanogo instituta.

EOGATSKIY, V.V., otv. red.; GOR'KIY, Yu.I., red.; DOHROVOL'SKIY,
M.N., red.; KOROPETS, I.P., red.; KURTSERAYTE, Sh.D., red.;
PEL'ITEK, Ye.I., red.; FANHERG, F.S., red.; KHAZAGAROV,
A.M., red.; SHESTAKOV, Yu.G., red.; LIFSHITS, L., red.

[Geology and geochemistry of the mineral resources of
Krasnoyarsk Territory] Geologiia i geokhimiia poleznykh
iskopaemykh Krasnoiarskogo kraia; sbornik statei. Krasnoiarsk, Krasnoiarskoe knizhnoe izd-vo, 1964. 1979.

(MIRA 18:9)

1. Krasnoyarskaya kompleksnaya ekspeditsiya.



TLUN, K.F., kand. tekhm. nauk; KHASHOV, Yu. L., kand. tehhm. rauk; SHESTAKOV, Yu.K., inzh.

Specialization of gondola cars is an afficient mensume.
Thel. dor. transp. 47 no. 11:222-26 N 165 (MISA 19:1)

ACC NR: AR7002213 (AN) SOURCE CODE: UR/0271/66/000/010/A029/A029

AUTHOR: Bortsov, Yu. A.; Shestakov, Yu. S.; Suvorov, G. V.

TITLE: Experimental determination of the parameters of nonlinear systems in electric drives

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychistel'naya tekhnika, Abs. 10A215

REF SOURCE: Sb. Avtomatizir. elektroprivod proizv. mekhanizmov. T. I. M.-L., 1965, 206-208

TOPIC TAGS: nonlinear system, electric drive,

ABSTRACT: A method of determining the parameters of elements in electrical drive systems is discussed. A description is given of a device which was developed on the basis of this method and which permits sufficiently rapid determinations of the parameters necessary for modeling nonlinear systems in electrical drives. The dynamics of nonlinear electromagnetic elements (excitation circuits of electric machines, EMU, MU, amplidynes, magnetic amplifiers, etc.) which are the basic

Card 1/2

UDC: 62-83

ACC NR: AR7002213

elements in drives, is characterized by magnetization curves, the demagnetization coefficient and rated time constants of the excitation circuit  $(T_E)$  and short-circuit contour  $(T_S)$ .  $T_E$  may be determined from the increment (decrement) of the magnetic flux from zero to the base value, and does not depend on the shape of the applied voltage or the presence of magnetically-connected circuits, so that often it is not necessary to set up a special circuit for the experiment, and the measurements may be made without disconnecting the element from the overall system. This is the most important feature of the proposed method for determining the rated time constant. The principle of measuring the coefficient of feedback, the electromechanical time constant, and  $T_S$  is discussed. A block diagram is given of the device and of its basic technical characteristics. The text includes illustrations. There are 2 references. [Translation of abstract]

SUB CODE: 09/

Card 2/2

MILLER, G.Ya.; VLADYKIN, M.I.; SHESTAKOV, Yu.S.

Replacing running tests of high-capacity trailers by stand tests.

Avt.prom. 28 no.2:48 F \*62. (MIRA 15:2)

SHESTAKUTA, A., mladchiy nauchnyy cotrudnik

Machanical control measures against the larvae of Laspeyresitame. Zashoh. rast. ot. vred. i bol. 10 no.8:41 '65. (MIRA 18:11)

l. Donskoy nauchno-issledovatel'skiy institut sel'skogo
khonyaystva.

SHESTAKOVA, A., starshiy nauchnyy sotrudnik

Weather and loose smut of wheat. Zashch. rast. et vred. 1 bol.

10 nc.3:41 '65.

1. Bezenchukskaya opytnaya stantsiya, Kuybyshevskaya oblast'.

SHUSTAKCVA, A.

NATAL'INA, O. B., PAN'KOVA, O., and SHESTAKOVA, A. "On Apple Rosette (Possibly Virus Disease)," Sad i Ogorod, no. 8, 1951, pp. 36-38. 80 Sal3

So: Sira - Si-90-53, 15 Dec. 1953

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ARISTOV, Ye.M.; Prinimali uchastiye: SHESTAKOVA, A.A.; KIRILLOVA, G.N.; KADYROVA, Ya.M.

Automatic device for opening press molds after the vulcanization of tire casings. Kauch.i rez. 20 no.7:50-51 Jl '61. (MIRA 14:6)

1. Voronezhskiy shinnyy zavod.
(Tires, Rubber)

# 69. Direct Oxidation of Methane To Methanol

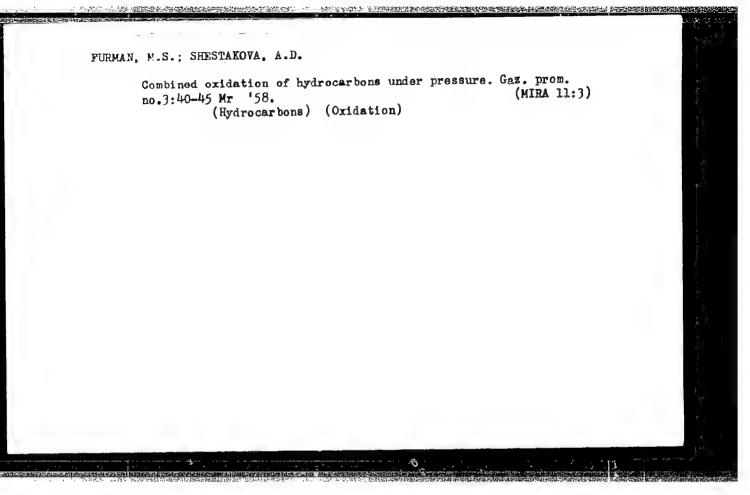
"Oxidation of Methane Under Pressure," by M. S. Furman and A. D. Shestakova, Khimicheskaya Pererabotka Neftyanykh Uglevodorodov (Chemical Conversion of Petroleum Hydrocarbons), Academy of Sciences USSR, Moscow, 1956, pp 344-351

Oxidation of methane at pressures of 50-500 atmospheres and at the temperature of 375° was studied. Comparison of the oxidation of methane at high pressures with oxidation at atmospheric pressure showed that methanol is the predominant product at high pressures while formaldehyde predominates at low pressures. It was established that increasing the pressure beyond 250 atmospheres does not result in any further increases in the yield of methanol. The effects of the temperature, the time during which the mixture of CH<sub>h</sub> and oxygen or air remains in the reaction zone, and the concentration of oxygen on the process of the oxidation of methane were investigated. Assumptions are made in regard to the nature of the effect which pressure exerts on the process of oxidation. (U)

Same 1 115

FURMAN, M.S., doktor khim. nauk; SHESTAKOVA, A.D.

Investigating the mechanism of the oxidation of lower saturated hydrocarbons under pressure with the use of the carbon isotope of (MIRA 12:9) mass 14. Trudy GIAP no.8:63-68 '57. (MIRA 12:9) (Hydrocarbons) (Oxidation) (Carbon—Isotopes)



5(3) AUTHORS

Furnam 1 E , Chestakova, A D , SOV/20 124-5-34/62

trest Tabebovich, I L. Lyubitoyna, E A.

TITLE:

Oxidation of a Butane Solved in Acetic Acid by Air Under Pressure (Okisleniye a-butana v rastvore uksusnoy kisloty vozdukhom

pod davleniyem)

PERIODICAL:

Doklady Akademii nauk SSSR. 1959, Vol 124, Nr 5 pp 1083-1084

(USSR)

ABSTRACT

Under relatively high temperatures (350-400°) the exidation of butane in the gaseous phase results in an entire scale of exygen containing products (Refs 1-3). It has recently been pointed out (Refs 4-8) that the exidation of n-butane under pressure in the liquid phase is much more selective and leads under milder conditions to valuable organic products: acetic acid ethyl acetate, and methyl-ethyl ketone. This exidation can be effected either below the critical temperature of butane ( $T_{\rm C} = 152^{\circ}$ , Refs 4-5) or above the same, with the aid of solvents (Refs 6-8). The latter method seems to be more promising.

The authors have chosen acetic acid as a solvent in which butane is soluble and which under the existing conditions is

indifferent to exidation and forms itself an exidation product

Card 1/2

Oxidation of noButane Jodwed in Acetic Acid by Air SOV/20-124 5-14/62 Under Pressure

of bacane. Cobalt stearate was used as a catalyst. The experiment was accree out through six hours at various velocities of the arm armam which served for oxidation. Figure 1 shows the results. They make the advantages of the oxidation above T, apparent. Figure 2 contains statements on the influence of the pat lyst on the process carried out at 60 atmospheric excess prisoner in 1690. The catalyst increases the yield of useful products and directs the process toward a predominant formation of acetic acid. There are 2 figures and 8 references, 3 of which are Joviet

ASSOCIATION

Josudarstverney nauchne-iseledovatel'skiy i provektave institit storney promyshlennesti (State Scientific Research and image: Institute for Nitrosen Industry)

PRESENTED

October 8 1998 by S T. Vol fkovich, Academician

SUBMITTED.

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Card 2/2

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では、下のことが必要がある。

All call: Furman, h. J., Shestakova, A. w., Arest-Yababovich, f. L.

11.2.: Oxiention of n-butane in liquid phase under pressure

Para and: Editioneskaya promyttlennost', no. 1, 1961, 6-11

unri i/

tures (100-10 03) than in gaseous phase (350-4000). The destruction of important pxi ation products is thus excluded and the reaction is more selective. Vacamin products of oxidation of n-butane in liquid phase are CH3COOH, CH3COCH3, unit to 2000 2 45, whereas HCHO, CH3CHO, CH3CH, CH3COCH3, HOULH, and OH3COOH are formed in the gaseous phase. To accelerate the reaction, n-butane is discolved in acetic acid (main reaction product). Oxidation takes place above the critical temperature of n-04410 (152°C). Pressure pipe (4) serves for conducting the oxidizing air into the acetic solution of n-butane contained in the reaction vessel (2) made of glass or

0.10ution of n-busine in liquid... 5110 3215

titanium, which had been put into the steel autoclive (1) (ii. 2). After passing the reflux condenser, the reaction gases still contain 3 - 10, of butane.  $80_2$ ,  $9_2$ , 30,  $6_4$ H $_{10}$ , and H $_2$  were determined in the succous reaction products, while  $\rm OH_3OUOH$ ,  $\rm OH_3OUOO_2H_5$ , and  $\rm h_2O$  wave established in the liquid products. For maximum butane transformation in collimateless of acetic acid, the following data were obtained by constant abilition of 540 g of butanc dissolved in acetic acid: ratio butane, socia acid = 0.5, 1 (Fig. 3); duration of emperiment: 3 hr , reaction vergerature 165°C, air supply 110 - 120 El/hr, amount of catalyst: 0.05 000 a solution of 0.016, of pobilt stearate in aqueous acetic acid. Premiumo increuse from 50 to 80 atm lid not affect the composition of the reaction products but accelerated the reaction due to an increase in the  $\mathcal{O}_2$  consensuation in the reaction zone. Optimum pressure was 60 atm. It was also found that intermediates of the oxidation such as  $\text{Ch}_5\text{COC}_2\text{H}_5$  and  $\text{CH}_5\text{COOC}_2\text{H}_5$  do not insibit the course of the reaction or raduce the yield of acetic acid. All the other colvents, except acetic acid, reduced the total exchange of butanc. Two phases were

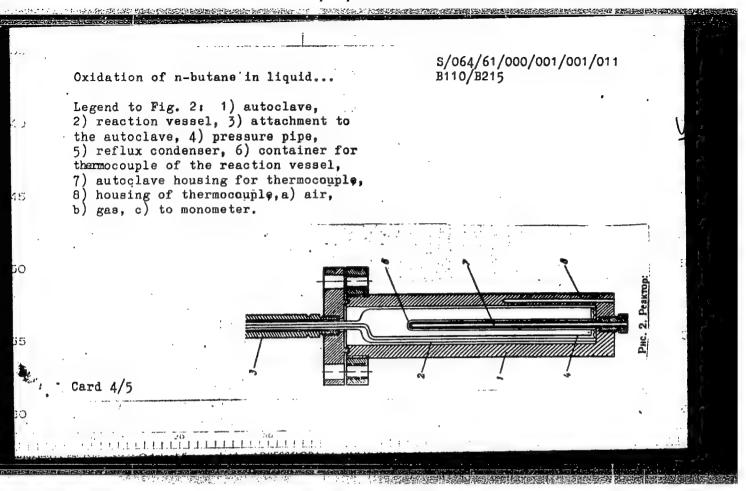
Cari 2/5

Oxidation of n-butane in liquid...

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B110/B215

obtained in the experiments by G. D. Yefremova and R. M. Koroleva conducted in the GIAP (State Institute of the Nitrogen Industry) on the state of the system butane - acetic acid - water, in which concentrations of acetic acid lower than 90% were used. The ratios butane/acetic acid of these two phases differed. An optimum ratio of 0.5 to 1 can only be guaranteed by concentrations of acetic acid exceeding 90% of the reaction liquid. Therefrom it follows that a 100% acetic acid is best suited as solvent. There are 5 figures, 5 tables, and 18 references: 9 Soviet-bloc and 9 non-Soviet-bloc.



YERMONENNO D.A. (Franciscourse. Printmal: unbastive: SHESTAKOVA A.I., inzh. aveniko D.A., iozh.

rransure welting of large-section parts. Avion. svar. 17 no.5:78-79

My 84.

1. institut elektrosvarkt imeni Patona AN UkrSSR (for Shestakova, Rjbaiko).

RYABOV, I.V., kand. tekhn. nauk, red.; SHESTAKOVA, A.L., red.

[Protection of chemical plants against fire and explosions]
Okhrana khimicheskikh predpriiatii ot pozharov i vzzyvov.
Moskve, Nauchno-issl. in-t tekhniko-ekon. issledovenii, 1961.
342 p.

(Chemical industries—Fires and fire protection)

(Chemical industries—Fires and fire protection)

SHESTAKOVA, A.P., starshiy nauchnyy sotrudnik

Artificial infection by the vacuum method. Zashch. rast. ot vred. i bol. 8 no.9:42 S '63. (MIRA 16:10)

1. Bezenchukskaya selektsionnaya stantsiya.

SOV/124-57-3-3574

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 3, p 137 (USSR)

AUTHOR: Shestakova, A. V.

TITLE: The Influence of the Shape of the Axis of a Fixed Bridge Arch on the

Forces Arising From a Live Load (Vliyaniye ochertaniya osi

bessharnirnogo mostovogo svoda na usiliya ot vremennoy nagruzki)

PERIODICAL: Tr. Khabarov. in-ta inzh. zh.-d. transp., 1956, Nr 9, pp 112-166

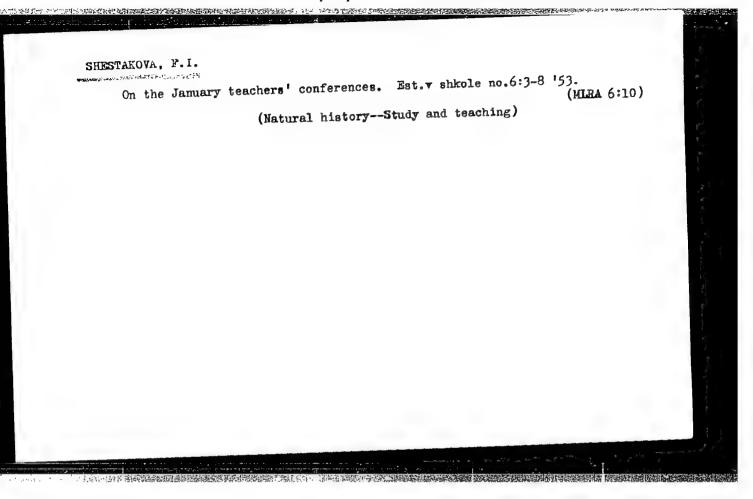
ABSTRACT: The author provides calculations of fixed arches having various shapes

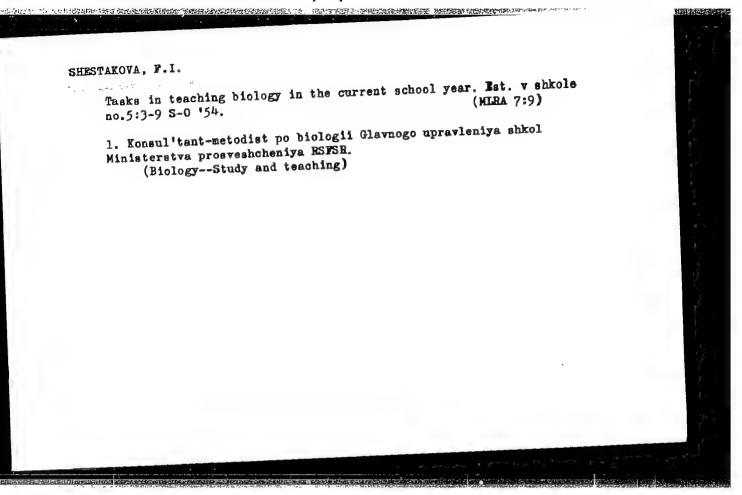
with reference to the effect exerted by a live load and presents a com-

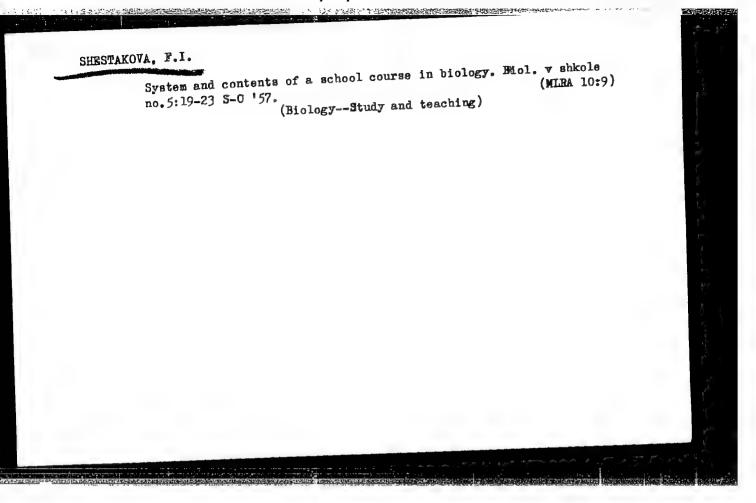
parison of the results obtained.

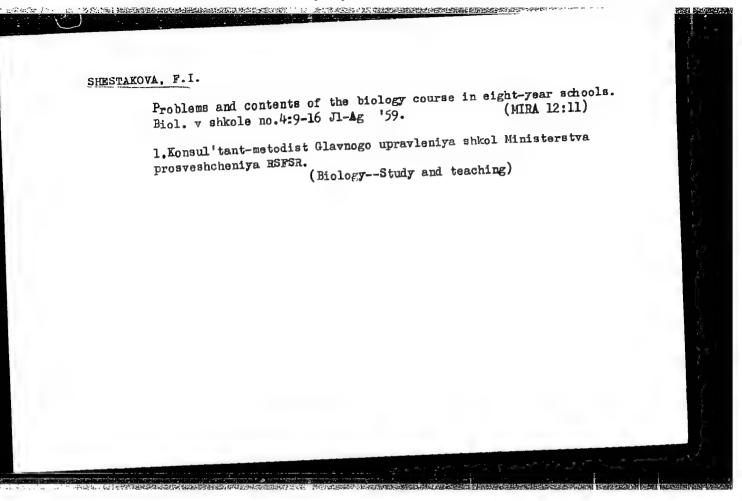
I. K. Snitke

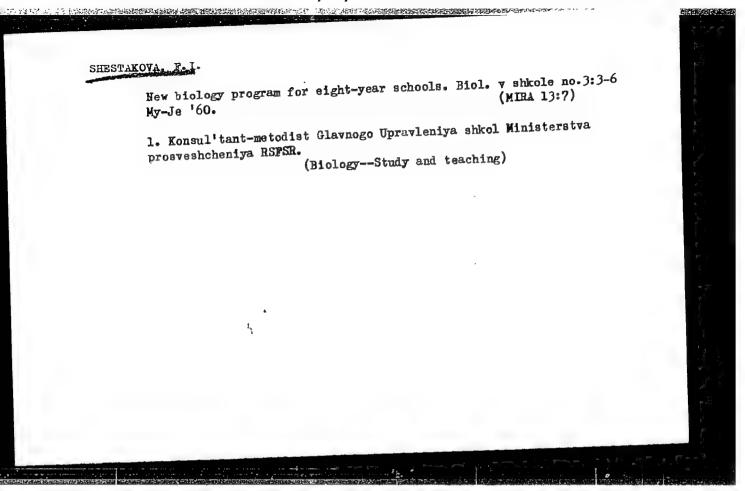
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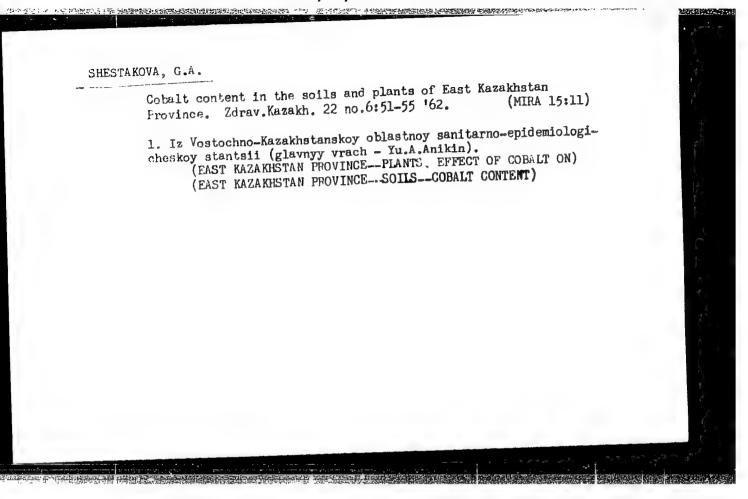






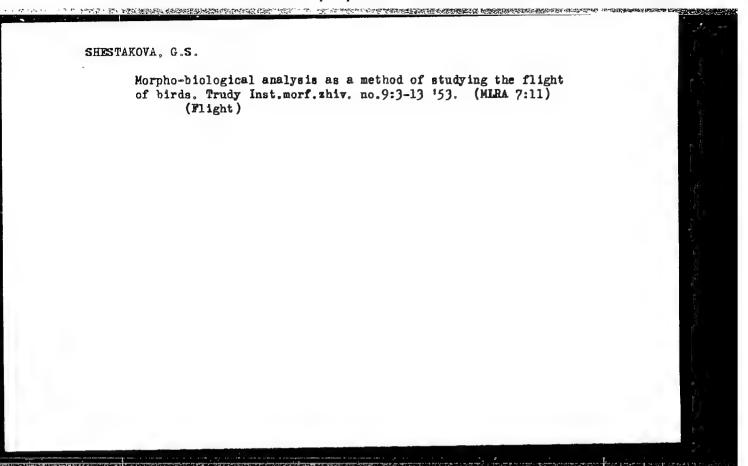


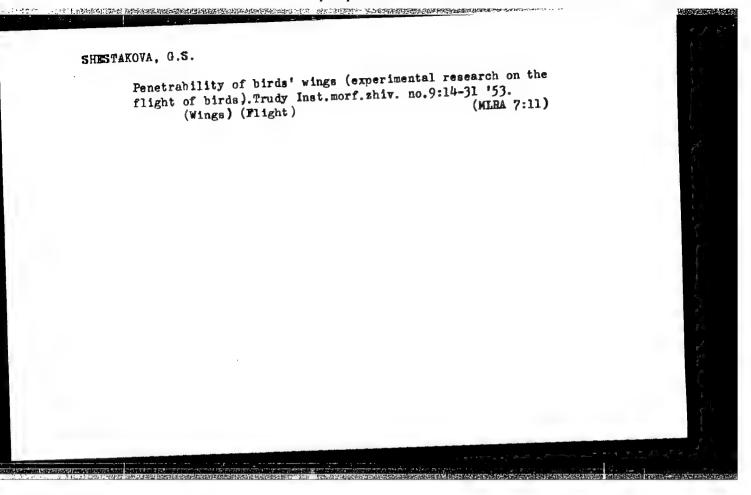


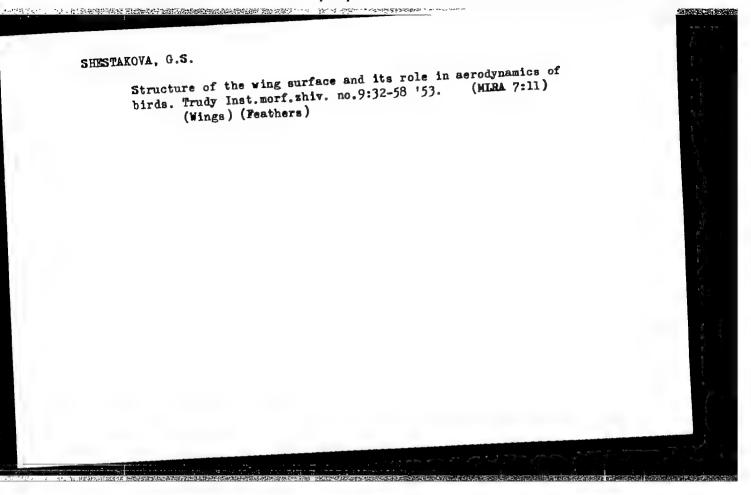


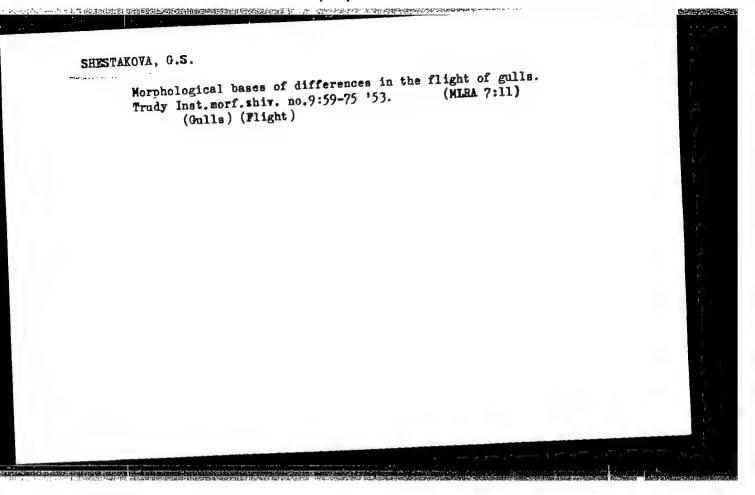
"Evolution of the Sound-Transmitting Apparatus of Reptiles and Analysis of the Factors Determining the Direction of the Evolutionary Processes," Iz. Ak.
Nauk SSSR, Ser. Biol., No.h, pp. 57-72, 1950

Inst. Morphology of Animals im. A. N. Severtsov, AS USSR









SABLINA, T.B.; SHESTAKOVA, G.S., doktor biologicheskikh nauk, redaktor; SHIDROVSKAŸA, O.G.; AUZAN, N.P., tekhnicheskty redaktor dioofed animals of the Byalovezhska Pushcha. Trudy Inst.morf.zhiv. no.15:3-191 '55. (MIRA 8:11) (Byalovezhska Pushcha--Ungulata)

SHESTAKOVA, G.S.

Mechanics of bird flight [with English summary in insert]. Zool.zhur.
25 no.7:1043-1050 Jl '56. (MLRA 9:9)

1.Institut merfologii zhivetnykh AN SSSR.

(Flight)

YAKOBI, V.E.; KOKSHAYSKIY, N.V.; BORODULINA, T.L.; SHESTAKOVA, G.S., doktor biol. nauk, prof., otv. red.; BROVKINA, Ye.T., red.izd-va; KHENOKH, F.M., tekhn. red.

[Functional morphology of birds] Funktsional'naia morfologiia ptits. Moskva, Izd-vo "Nauka," 1964. 91 p.
(MIRA 17:4)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120020-7"

ZIV, D.M.; SHESTAKOVA, I.A.

Solubility of some actinium compounds. Part 1: Determination of the solubility of actinium oxalate. Radiokhimiio 7 no.2: 166-175 '65.

Solubility of some actinium compounds. Part 2: Determination of solubility and evaluation of the relative basicity of actinium hydroxide. Ibid.:175-187 (MIRA 18:6)

S/081/63/000/004/017/051 B166/B186

AUTHORS: (17) Kalabina, A. V., Myasnikova, L. S., Kolmakova, E. F., Shestakova, I. R., Pavlova, M. P., (18) Kalabina, A. V., Prilezhayeva, Ye. N., Yakovleva, Z. I.

TITLE: Studies in the field of synthesis and conversions of vinylaryl esters. No. 17. Synthesis and certain properties of  $\alpha, \beta$ -dibromethylaryl esters. No. 18. The addition of mercaptans to vinyl esters of the aromatic series

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1963, 238, abstract 4Zh122 (Izv. Fiz.-khim. n.-i. in-ta pri Irkutskom un-te, v. 5, no. 1, 1961, 193 - 206, 225 - 237)

TEXT: (17) Bromination of the vinyl esters of phenol (I), o-cresol (II), n-tert-butylphenol and thymol (III) in CCl<sub>4</sub> gave the respective α, β-dibromethyl esters (IV - VII), which have lachrymatory properties; without the solvent partial polymerization takes place. IV - VII probably exist in the form of two tautomeric forms CH<sub>2</sub>BrCHBrOAr = [CHBr-CHO(H)Ar] Br , as ionic Br is easily back-titrated by aqueous solutions of NaOH and AgNO<sub>3</sub>, Card 1/4

Studies in the field of ...

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whilst IV - VII themselves are smoothly converted into β-bromvinyl esters (BVE) when vacuum distilled, yield 80 - 85%. Hydrolysis of IV - VII proceeds in two distinct stages: first of all under the action of H2O cold there is dissociation of the weak oxonium complex, and the BVE which forms only splits with long boiling in an acid medium. Into a solution of 0.14 moles I in 40 ml CCl<sub>4</sub> at -5°C (3 - 8°C inside the flask) were stirred, over a period of 1.5 - 2 hrs, 0.15 moles dry  $Br_2$  in 20 ml  $CCl_4$ , and IV,  $C_8H_8OBr_2$ , was distilled off, yield 97.2%, b.p. 129 - 130°C/12 mm Hg, n°D 1.5849, d<sub>4</sub> 1.7418, fumes 3 g IV and 50 ml water were shaken in a closed bottle at 45 - 50°C for 5 hrs, this was extracted with ether, and 1.19 g phenol BVE (VIII) was separated by distillation, b.p. 100 - 102°C/10 mm Hg, n<sup>20</sup>D 1.5750, as well as 1.403 g IV. 1 g VIII and 25 ml 5%  $\rm H_2SO_4$  were heated, stirring at  $\approx 100^{\circ}\rm C$ for 6 - 7 hrs; this was neutralized with alkali and extracted with ether; after evaporating, BrCH2CHO was separated from the residue in the form of a semicarbazone; the alkaline layer was treated with 10% H2SO4, C6H5OH was extracted with ether. V - VII were synthesized under similar conditions Card 2/4

Studies in the field of ...

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CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE

(below are given: the substance, yield %, b.p. in °C/mm Hg, n<sup>20</sup>D, d<sub>4</sub><sup>20</sup>):

V, 97.6, 133 - 134/14, 1.5718, 1.5662, (BVE, b.p. 145 - 148°C/35 mm Hg,

n<sup>20</sup>D 1.5662); VI, 96.1, 126 - 127.3, 1.5450, 1.4909; VII, 97.5, 149 - 150.4,
1.5548, 1.4595.

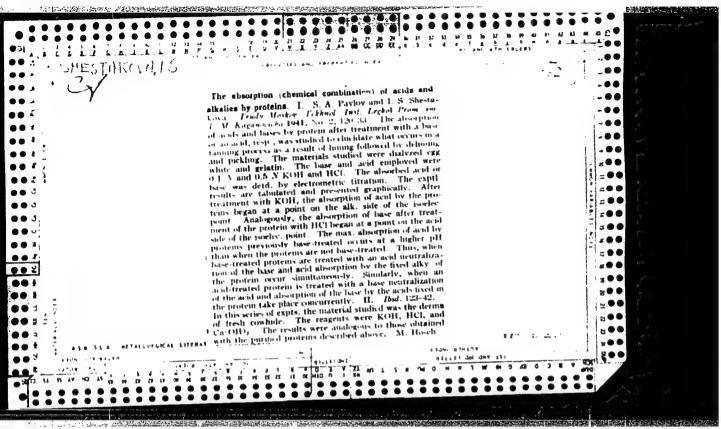
(18) The addition of ethyl- and butylmercaptans to I - III was achieved by ionic and radical mechanisms, leading to CH<sub>3</sub>CH(SR)OAr (IX) and RSCH<sub>2</sub>CH<sub>2</sub>OAr

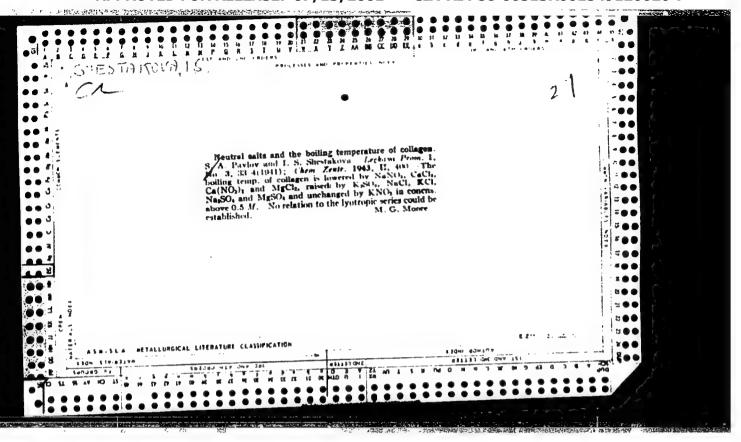
(X) respectively. Substitutes of the first kind in the benzene ring considerably simplify radical addition. The thioacetals produced are easily hydrolyzed with dilute H<sub>2</sub>SO<sub>4</sub> and split quantitatively when X is treated with HgCl<sub>2</sub>, which proves their structure to be that of β adducts; under these conditions IX is highly stable. 0.1 mole I, 0.1 mole C<sub>2</sub>H<sub>5</sub>SH and 0.02 g azodiisobutyrodinitrile were heated in a sealed ampoule at 90 - 100°C for 24 hrs, and X (R = C<sub>2</sub>H<sub>5</sub>, Ar = C<sub>6</sub>H<sub>5</sub>), C<sub>1</sub>OH<sub>14</sub>OS, was distilled, yield 85.02%, b.p. 123.5°C/3 mm Hg, n<sup>20</sup>D 1.5433, d<sub>2</sub>O 1.0543. The other X were produced under similar conditions (below are given: R, Ar, the gross formula, yield%, Card 3/4

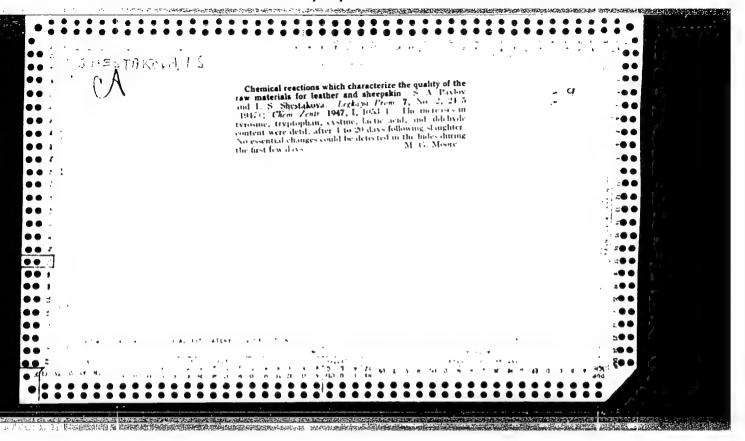
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Studies in the field of ...

b.p. in °C/mm Hg,  $n^{20}$ D,  $d_4^{20}$ );  $C_4H_9$ ,  $C_6H_5$ ,  $C_{12}H_{18}OS$ , 97.20, 141.0 - 142.0/2, 1.5313, 1.0118;  $C_2H_5$ , o-CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub> (Xa),  $C_{11}H_{16}OS$ , 97.19, 139.0/7, 1.5394, 1.0352;  $C_2H_5$ , 3-CH<sub>3</sub>-5-iso-C<sub>3</sub>H<sub>7</sub>C<sub>6</sub>H<sub>3</sub>,  $C_{12}H_{22}OS$ , 98.61, 166.0 - 167.0/12, 1.5270, 1.0025. A weak stream of dry  $SO_2$  was bubbled for 1 - 2 min into a cooled ampoule containing 0.1 mole I and 0.1 mole  $C_2H_5SH$ ; this was allowed to stand for 3 - 4 hrs and then neutralized with dry  $H_2CO_3$ , giving IX (R =  $C_2H_5$ , Ar =  $C_6H_5$ ) (IXa),  $C_{10}H_{14}OS$ , yield 68.5%, b.p. 62 - 63.0°C/3 mm Hg,  $n^{20}$ D 1.5365,  $d_4$  1.0436. A mixture of 0.2487 g IXa and an excess of 20% solution of  $HgCl_2$  in alcohol was allowed to stand for 2 - 3 hrs, methyl orange was added and 97.52% HCl was found by titration with 0.1 N NaOH. A stream of  $SO_2$  was bubbled for 0.5 - 1 min into a mixture of 0.1 mole II and 0.15 mole  $C_2H_5SH$ , after 20 - 25 min IX was separated by distillation (R= $C_2H_5$ , Ar = o-CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>),  $C_{11}H_{16}OS$ , yield 60.0%, b.p. 74 - 75°C/12 mm Hg,  $n^{20}$ D 1.5250,  $d_4$  1.0084, as well as Xa (in view of traces of  $O_2$ ), yield 3.1 g. For the previous communication see RZhKhim, 1961, 5Zh101. [Abstracter's note: Complete translation.]







SHECTAKOVA. I. S.

23388 Deystivye tripsina, pepsina, kontsentrata i orizona na kollagen i gol'ye. Legkaya prom-st', 1949, No. 7, c. 23-24.

Bibliogr: 'Nazv.

SO: LETOPIS NO. 31, 1949.

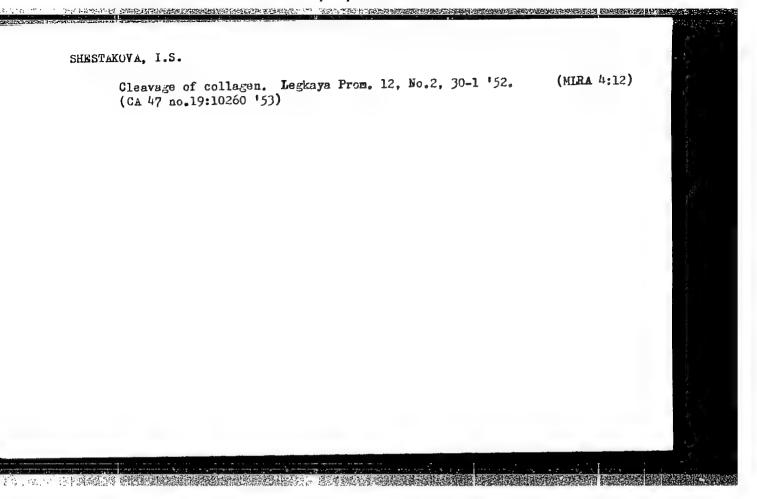
38115. SHESTAKOVA, I. S.

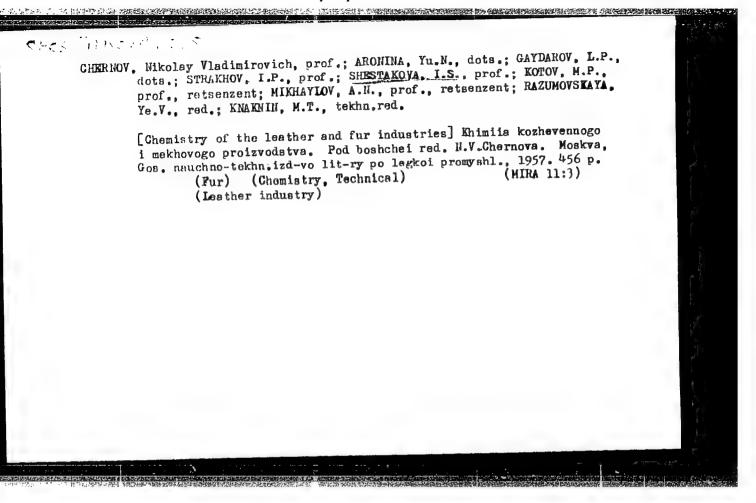
V zashchity prioriteta sovetskikh issledovateley. (O primenenii pokazatlya vyplavlyayemosti zhelatiny pri izuchenii protsessa myagcheniya. Kozhevenno-obuvnaya prom-st'). Legkaya prom-st', 1949, No 11, s. 22. - Bibliogr: 9 nazv

SHESTAKOVA, I.S.

"Factors Influencing the Character of Changes of Basic Albumins of Hides in the Fernentation Processes of the Leather Industry (Softening)." Sub 29 May 51, Moscow Technological Inst of Light Industry imeni L. M. Kaganovich.

Dissertations presented for science and engineering degrees in Moscow during 1951. So: Sum. No. 480, 9 May 55.





DENISOVA, A.A., inzhener; SHESTAKOVA, I.S., doktor tekhnicheskikh nauk, professor.

Tanning Russian leather with pine tanning. Leg.prom.17 no.3:19 Mr 157. (MLRA 10:4)

SAVEL'YEV, A.I., inzh.; SHESTAKOVA, I.S., doktor tekhn. nauk, prof.;
CHERNOV, N.V., doktor tekhn. nauk, prof.

Wearing out of hairs of furs. Leg. prom. 18 no.3:43-46 Mr '58.

(Fur) (MIRA 11:4)

BALBEROVA, N.A., inzh.; SHESTAKOVA, I.S., doktor tekhn.nauk, prof.

Effect of liming reagnets on albumins of hair follicles. Leg. prom. 18 no.4:36-37 Ap '58. (MIRA 11:4)

(Tanning)

CHERNOV, Nikolay Vladimirovich; ARONINA, Yuliya Naumovna; GAYDAROV,
Leonid Petrovich; GOLOVTEYEVA, Alevtina Alekseyevna; STRAKHOV,
Ivan Pavlovich; SHESTAKOVA, Irina Sergeyevna; YEGORKIN, N.I.,
prof., retsenzent; KOTOV, M.P., prof., retsenzent; PLEMYANNIKOV. M.N., red.; KNAKNIN, M.T., tekhn.red.

[Leather and fur technology] Tekhnologiia kozhi i mekha. Pod obshchei red. N.V.Chernova. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po legkoi promyshl., 1959. 719 p. (MIRA 13:2)

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